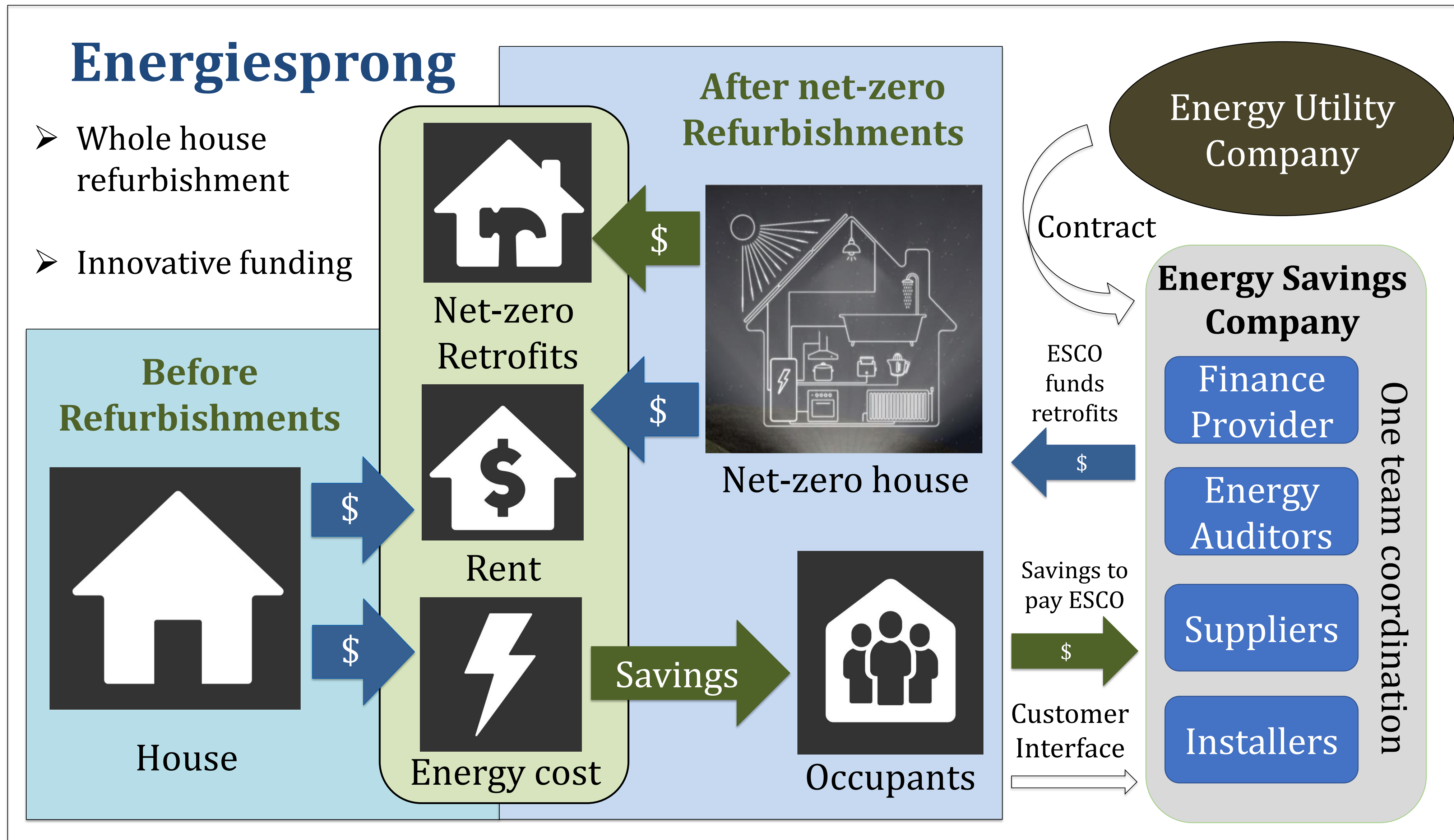


# Applicability of the Dutch 'Energiesprong' model to British Columbia



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## Fit-Gap analysis for Energiesprong Business Model approach in British Columbia

| BM Components          | Potential Fits  | Potential Gaps                             |
|------------------------|---|--|
| The Value Proposition  | Guarantee for Energy performance and Indoor environmental quality | Diverse weather affects energy performance |
| The Supply Chain       | BIM for energy auditors, Just in time (JIT) for manufacturers     | Significant distance among major cities    |
| The Customer Interface | One stop shop strategy  | Policy                                     |
| The financial model    | Revenue over the long term  | Policy                                     |
| The BM governance      | One team coordination, Energy supply contract                     | Policy                                     |

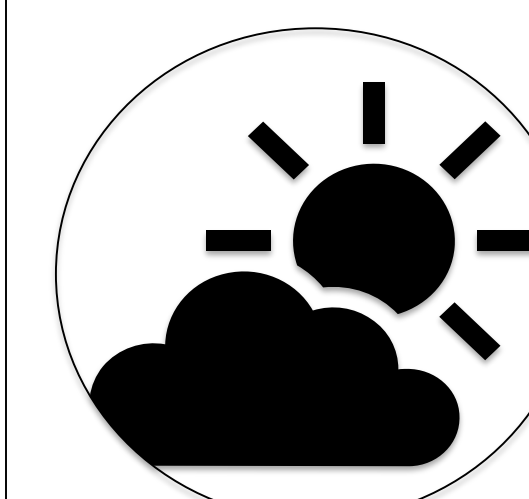
## Conclusions



Approximately 100,000 Non-profit affordable housing built before 1990



BC Energy Step Code (2017)



➤ Diverse climate  
➤ Significant distance among cities

**Potential first market for Energiesprong**

**Does not facilitate sustainable retrofits**

**A challenge which requires further research**

### Key References

1. Frontier Economics et. al, 2016
2. D. Brown, "Business models for residential retrofit in the UK: a critical assessment of five key archetypes," *Energy Efficiency*, 2018.
3. Pembina Institute, "Building Energy Retrofit Potential in B.C. Thought Leader Forum — Vancouver," 2016
4. Sustainable Buildings Canada, "Energiesprong Summary Report."
5. M. Almeida and M. Ferreira, "Ten questions concerning cost-effective energy and carbon emissions optimization in building renovation".
6. Energiesprong.eu

## Key factors for Energiesprong implementation in BC

### Key Players

- Social housing providers
- The Government
- Finance Providers
- Manufacturers
- Construction company
- Tenants

### Key Processes

- Market aggregation
- Policy adjustments
- Management such as BIM or JIT
- Energy Modeling
- Installations
- Monitoring & Maintenance

### Methods

- Literature Review & Analysis
- Brief Study and Analysis of Collected Data
- Fit-Gap Analysis Framework

### Objectives

- ES concept and business model
- Key Players & Processes for ES in BC
- Potential fits and challenges in ES business model